

AR09591PU-L**Human NCF1 (1-390, His-tag) - Purified****Alternate names:**

47 kDa autosomal chronic granulomatous disease protein, 47 kDa neutrophil oxidase factor, NCF-1, NCF-47K, NOXO2, Neutrophil NADPH oxidase factor 1, Neutrophil cytosol factor 1, Nox organizer 2, Nox-organizing protein 2, SH3 and PX domain-containing protein 1A, SH3PXD1A, p47-phox

Quantity:

0.25 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

Neutrophil cytosolic factor 1, also known as NCF1, is a cytosolic subunit of neutrophil NADPH oxidase. NCF1, along with NCF2 and a membrane bound cytochrome b558, is required for activation of the latent NADPH oxidase necessary for superoxide production. Defects in NCF1, often resulting from recombination between NCF1 and a nearby homologous pseudogene, cause chronic granulomatous disease.

Uniprot ID:[P14598](#)**NCBI:**[NP_000256](#)**GeneID:**[653361](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 0.1 M NaCl**Description:**

Recombinant human NCF1 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGDTFIRHIA LLGF EKRFVP SQHYVY MFLV KWQDLSEKVV YRRFTEIYEF HKT LKEMFPI
EAGAINPENR IIPHL PAKW FDGQRAAENR QGTLTEYCST LMSLPTKISR CPHLLDFFKV
RPDDLKLPD NQTKKPETYL MPKDGKSTAT DITGPIILQT YRAIANYEKT SGSEMALSTG
DVVEVVEKSE SGWWFCQMK KRGWIPASF L EPLDSPDETE DPEPNYAGEP YVAIKAYTAV
EGDEVSLLEG EAVEVIHKL L DGWWVIRKDD VTGYFPSMYL QKSGQDVSQA QRQIKRGAPP
RRSSIRNAHS IHQRSRKR L S QDAYRRNSVR FLQQRRRQAR PGPQSPGSP L EEERQTQRSK
PQPAVPPRPS ADLILNRCSE STKRKLASAV VEHHHHHH

Molecular weight: 45.7 kDa (398aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

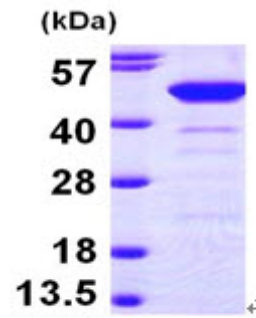
Shelf life: one year from despatch.

General Readings:

Wienties FB., et al. (2001) Biochem Biophys Res Commun. 289(2):382-8.

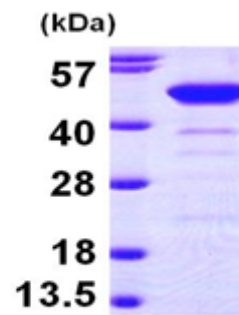
Doerries C., et al. (2007) Circ Res. 100:894-903.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human NCF1, 1- 390 aa, His-tagged



15% SDS-PAGE (3ug)